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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/750,293 | 12/31/2003 | Sangeeta N. Bhatia | 1034123-000095 | 9194 |
| 41790 7590 07/15/2008 BUCHANAN, INGERSOLL & ROONEY LLP P.O. BOX 1404 ALEXANDRIA, VA 22313-1404 | | | | |
| EXAMINER TENTON, LEO B | | | | |
| ART UNIT 1791 | | PAPER NUMBER | | |
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ADIPFDD@bipc.com

Office Action Summary

Application No.

10/750,293

Applicant(s)

BHATIA ET AL.

Examiner

Leo B. Tentoni

Art Unit

1791

Period for Reply -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 April 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 30, 31, 34-46 and 48-64 is/are pending in the application.
- 4a) Of the above claim(s) 39-44 and 54-59 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 30, 31, 34-38, 45, 46, 48-53 and 60-64 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claim 48 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 48, line 1 recites "a method", which does not further limit claim 30 (this rejection may be overcome by replacing "method" with - - polymer scaffold - -).

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 30, 34-36, 45, 46, 48 and 49 are rejected under 35 U.S.C. 102(e) as being anticipated by Weiss et al (U.S. Patent 6,143,293 A).

Weiss et al (see the entire document, in particular, col. 1, line 15 to col. 2, line 18; col. 4, line 39 to col. 5, line 8; col. 6, lines 1-51) teaches a layered polymer scaffold as claimed.

5. Claims 31, 50, 60, 61 and 63 are rejected under 35 U.S.C. 102(e) as being anticipated by Masini et al (U.S. Patent Application Publication 2001/0043918 A1).

Masini et al (see the entire document, in particular, paragraphs [0027] - [0029] and [0086]) teaches a polymer scaffold having a varying surface as claimed.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the

examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

8. Claims 37, 38 and 64 are rejected under 35 U.S.C. 103(a) as being unpatentable over Weiss et al (U.S. Patent 6,143,293 A) as applied to claims 30, 34-36, 45, 46, 48 and 49 above, and further in view of Ma (U.S. Patent 6,872,387 B1).

Ma (see the entire document, in particular, col. 1, lines 54-58; col. 4, lines 26-35) teaches the use of hydrogel polymers for polymer scaffolds, and such would have been obvious to one of ordinary skill in the art at the time the invention was made in Weiss et al in view of Ma principally in order to provide a scaffold of hydrogel polymer for cell growth.

9. Claims 51-53 and 64 are rejected under 35 U.S.C. 103(a) as being unpatentable over Masini et al (U.S. Patent Application Publication 2001/0043918 A1) as applied to claims 31, 50, 60, 61 and 63 above, and further in view of Ma (U.S. Patent 6,872,387 B1).

Ma (see the entire document, in particular, col. 1, lines 54-58; col. 4, lines 26-35) teaches the use of biopolymers and hydrogel polymers for polymer scaffolds, and such would have been obvious to one of ordinary skill in the art at the time the invention was made in Weiss et al in view of Ma principally in order to provide a scaffold of biopolymer or hydrogel polymer for cell growth.

10. Claim 62 is rejected under 35 U.S.C. 103(a) as being unpatentable over Masini et al (U.S. Patent Application Publication 2001/0043918 A1) as applied to claims 31, 50, 60, 61 and 63 above, and further in view of Weiss et al (U.S. Patent 6,143,293 A).

Weiss et al (see the entire document, in particular, col. 1, line 15 to col. 2, line 18; col. 4, line 39 to col. 5, line 8; col. 6, lines 1-51) teaches a scaffold having a plurality of layers, and such would have been obvious to one of ordinary skill in the art at the time the invention was made in Masini et al in view of Weiss et al principally in order to provide a desired scaffold for cell growth.

Response to Arguments

11. Applicant's arguments with respect to claims 30, 31, 34-38, 45, 46, 48-53 and 60-64 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leo B. Tentoni whose telephone number is (571) 272-1209. The examiner can normally be reached on Monday - Friday (6:30 A.M. - 3:00 P.M.).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina A. Johnson can be reached on (571) 272-1176. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Leo B. Tentoni/
Primary Examiner, Art Unit 1791